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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/986,764	11/09/2001	Gregory S. Rawlins	1744.1330000	5623
26111	7590	06/01/2005	EXAMINER	
STERNE, KESSLER, GOLDSTEIN & FOX PLLC 1100 NEW YORK AVENUE, N.W. WASHINGTON, DC 20005			VO, DON NGUYEN	
			ART UNIT	PAPER NUMBER
			2631	

DATE MAILED: 06/01/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/986,764

Applicant(s)

RAWLINS ET AL.

Examiner

DON N. VO

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 09 December 2004.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1,2,4-17,26-29,31-40,49 and 51-82 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☒ Claim(s) 53-60,79 and 80 is/are allowed.
- 6) ☒ Claim(s) 1,2,4-8,13-17,26-29,31-34,39,40,49,51,52,61-67,72-78,81 and 82 is/are rejected.
- 7) ☒ Claim(s) 9-12,35-38 and 68-71 is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|---|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date <u>1/10/05 & 3/7/05</u> . | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Acknowledgment

1. This Office Action is responsive to the Amendment filed on 12/9/2004.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

3. Claims 1, 26, 28, 39, 40, 49, 51, 61, 75-78, 81 and 82 are rejected under 35 U.S.C. 102(b) as being anticipated by Urabe et al (5,760,629; art of record).

Regarding claims 1, 26, 28, 39, 40, 49, 51, 61, 75-78, 81 and 82, Urabe, as shown in figures 1-8, teaches a DC offset compensation device used in a receiver for compensating DC offset comprising a receiving channel (a), a summer (1), an estimator having integrators (4) and their time constants are varied by the controlled signal (c). Notice that, it is the inherent property of the integrator to have its frequency response varied when its time constant is varied. See also column 1, lines 6-22; column 2, line 56 to column 3, line 25; and column 9, line 11 to column 11, line 61.

Claim Rejections - 35 USC § 103

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

5. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

6. Claims 2, 4, 16, 17, 27, 52, 62, 63 are rejected under 35 U.S.C. 103(a) as being unpatentable over Urabe et al (5,760,629).

Regarding claims 2, 16, 17, 27, 52 and 62, Urabe teaches all subject matter claimed except for particularly using the DC offset correction circuit in the WLAN communication system and receiving RF signal or IF signal. However, the DC offset correction circuit of Urabe can be applied in many receivers which can process RF or IF signals. See column 1, lines 6-10. Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made

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to apply the DC offset correction circuit of Urabe in WLAN since it is just an intended use of the circuit.

Regarding claims 4 and 63, Urabe teaches all subject matter claimed except for particularly setting the frequency response of the integrator to certain frequency responses as claimed. However, the frequency response of the integrator of Urabe can be varied based on the controlled value of the controlled signal (c). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to set the frequency response of the integrator to certain frequency responses as claimed and such setting would not involve any inventive features since it is just a matter of varying the value of the designed components.

7. Claims 5-8, 13-15, 29, 31-34, 64-67, and 72-74 are rejected under 35 U.S.C. 103(a) as being unpatentable over Urabe et al (5,760,629) in view of Nagata (6,204,789; art of record) or Dasgupta (6,084,465).

Regarding claims 5-8, 13-15, 29, 31-34, 64-67 and 72-74, Urabe teaches all subject matter claimed except for particularly implementing the integrator using amplifier, capacitor and variable resistor as claimed. However, Nagata or Dasgupta teaches implementing the integrator having the components as claimed. See figure 17A and column 15, lines 24-27 of Nagata and figures 1A, 3A, 4A and 5 of Dasgupta. Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to implement the

integrator of Urabe using the implementation as taught by Nagata or Dasgupta since it is just an alternative way of implementing the integrator.

Allowable Subject Matter

8. Claims 53-60, 79 and 80 are allowed.
9. Claims 9-12, 35-38, and 68-71 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Response to Arguments

10. Applicant's arguments with respect to claims 1, 2, 4-8, 13-17, 26-29, 31-34, 49, 51, 52, 61-67, 72-78, 81 and 82 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

11. Any inquiry concerning this communication or earlier communications from the examiner should be directed to DON N. VO whose telephone number is (571) 272-3018. The examiner can normally be reached on TUE - FRI (9:00-6:30).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, MOHAMMAD GHAYOUR can be reached on (571) 272-3021. The fax

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phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



DON N. VO
Primary Examiner
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